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G-000-1012.4

RESULTS OF WELL SAMPLING

06/25/90

**DOE-1304-90
DOE-FSO/CITIZEN
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LETTER**



Department of Energy

FMPC Site Office

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June 25, 1990

DOE-1304-90

Mr. Gerald Brosher
Brosher Construction
2520 Millville-Ross Rd.
Hamilton, Ohio 45013

Dear Mr. Brosher:

The purpose of this letter is to provide you with the results of the sampling of your well conducted by Westinghouse Materials Company of Ohio (WMO), contractor to U.S. Department of Energy for the Feed Materials Production Center (FMPC). Your well at 2520 Millville-Ross Road was sampled on June 8, 1990 in response to your request. The results of this sampling are expressed below in parts of uranium per billion parts of water (ppb), followed by milligrams of uranium per liter of water (mg/L) and finally by picocuries of uranium per liter of water (pCi/L). Picocuries per liter are the units used to express groundwater data in the Environmental Monitoring Annual Report.

Sampling Date

Uranium Concentration

	<u>(ppb)</u>	<u>(mg/L)</u>	<u>(pCi/L)</u>
June 8, 1990	1.0	0.0010	0.68

For comparison, a groundwater study conducted by an independent consultant for the FMPC determined that background concentrations of naturally-occurring uranium in the groundwater for this area range from less than 0.1 ppb to 2.7 ppb (0.0001 to 0.0027 mg/L or 0.068 to 2.0 pCi/L). Also, a U. S. Geological Survey study (J. D. Hem, 1970, Geological Survey Water-Supply Paper 1473) reported a range of uranium content of less than 0.1 ppb to 10 ppb (0.0001 to 0.010 mg/L or 0.068 to 6.8 pCi/L) in most natural water within the United States. The uranium concentration in your sample was within the range expected for naturally-occurring background uranium in this area.

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Mr. Brosher

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If you have any questions regarding the results reported to you in this letter or of any aspect of our environmental monitoring program, please contact Andy Avel by phone (738-6161) at your convenience.

Sincerely,



Gerald W. Westerbeck
FMPC Site Manager

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